

OSHA Regulated Chemicals

OSHA Methylene Chloride Site Inspection 8/9/01 Status of Corrective Action Plan

Robert Selvey

SHSD Industrial Hygiene Group

ESH Coordinator Meeting
10/18/01

OSHA Inspection

1. BNL was targeted as part of an OSHA Area Office **local** *Special Emphasis Program* of unannounced inspections.
2. DOE BAO allowed OSHA inspector on-site as a courtesy until jurisdiction issue settled.
3. DOE BAO established jurisdiction.
4. DOE and BNL accept OSHA observations as valid.
5. No formal document was produced by OSHA.
6. BNL *Corrective Action Plan* is implemented under DOE. DOL OSHA is no longer involved.

OSHA Inspection Method

- **Applicability of Standard- Examine MC Use at BNL:**
OSHA found BNL has Methylene Chloride in:
 - MC (neat) and trade name products in multiple laboratories.
 - No non-lab use of neat MC.
 - Multiple trade name products in many non-lab uses.
- **Scope of Inspection:**
 - OSHA did not intend to inspect every laboratory use of neat MC.
 - OSHA did intend to inspect every non-lab (HazCom) use area.

OSHA Inspection Method

- **Interviews on 9/8/01:**
 - Inspector held an opening and closing meeting.
 - Inspector conducted an interview with BAO and SHSD.
 - Inspector conducted private interview with a worker (Magnet Division).
- **Site Inspections on 9/8/01:** OSHA inspected two BNL work sites with MC or trade name products
 - MC in Bldg 555 Stockroom
 - Rez-N-Bond in Bldg 905

OSHA Observations

1. **Initial Hazard Determinations-** Did not find exposure assessments that quantify exposure for each use. Few quantitative measurements have been made. OSHA wanted documentation for every use.
2. **Leak Detection-** Did not find an established program for leak detection. Inspector conducted field tests on several containers and did not find leakage.
3. **Employee Information-** Did not find MC specific training records.

BNL Corrective Action

1. Initial Hazard Determination-

- A. SHSD e-mailed a *Use Justification form* to each CMS container owner.
 - Response rate is currently about 65%.
 - Over 60% of trade name product owners have voluntarily terminated use and discarded via WMD.
- B. Every current BNL product manufacturer was contacted regarding non-MC formulations or substitutes.
 - “Substitute” list was submitted to current owners.
- C. Follow-up request for documentation to *Justification form* is planned next week to pick up non-responders.
 - After follow-up request period, non responding users will be considered “current use owner” and will be included in all Corrective Action Plan.
- D. Exposure monitoring will begin on current users. Representative sampling will be used to the greatest extent feasible. Complete assessments by 09/31/02 ?

BNL Corrective Action

2. Leak Detection-

- A. SHSD conducted a review of OSHA policy on “leak detection” to determine if OSHA’s “corporate” policy was correctly interpreted by local office inspector. No contradictory or supporting evidence is written.
- B. SHSD has prepared a *Policy and Method SOP* based on methodology used by the OSHA inspector.
- C. SHSD will provide the *SOP* to container owners so that container owners can establish their program for leak detection.
- D. Leak detection program to be in place for each users by *12/31/01* ?

BNL Corrective Action

3. Employee Information-

- A. SHSD prepared training material based on OSHA guidance and requirements
- B. Submitted to OTQM for publishing as CBT Web course.
- C. ETA for web publishing is October 31.
- D. BNL organizations will be expected to modify JTA of MC owners and users to include this specific training.
- E. Complete training by *12/31/01* ?